Author Index of Volume 213

Albano, V.G., 183
Almog, O., 99

Bachechi, F., 269
Barrau, J., 1
Barrows, J.N., 91
Bartley, S.L., 213
Beattie, J.K., 49
Benelli, C., 279
Bensimon, C., 65
Bernstein, S.N., 213
Bianchini, C., 269
Bino, A., 99
Bondietti, G., 301
Boyd, P.D.W., 233
Braga, D., 121, 191
Bridson, J.N., 289
Brienne, S., 233
Browning, J., 171
Budzichowski, T.A., 141

Calhorda, M.J., 199
Cassano, V., 1
Chen, H., 177
Chen, L., 289
Chen, Q., 325
Chiou, Y.-M., 41
Chisholm, M.H., 17, 141
Connors , S.P., 289
Costa, E., 25
Costes, J.-P., 57

Deeming, A.J., 3
Denninger, U., 129
Dixon, K.R., 171
Dolg, M., 233
Dunbar, K.R., 213
Dyson, P.J., 191

Edema, J.J.H., 65
Eisenberg, R., 111

Fanwick, P.E., 247
Faus, J., 261
Felix, M.S.B., 3
Folting, K., 17
Fromhold, M.G., 141

Gambarotta, S., 65
Garfinkel-Shweky, D., 99
Gervasio, G., 301
Goddard, R., 129
Gorun, S.M., 319
Grace, M.R., 103
Gramlich, V., 157
Grepioni, F., 121
Guerriero, P., 279

Hadj-Bagheri, N., 29
Hall, M.B., 75
Hambley, T.W., 49
Hanzlík, J., 311
Hao, S., 65
Haubrich, S.T., 17
Hegetschweiler, K., 157
Hendrich, M.P., 41
Huffman, J.C., 141

Iapalucci, M.C., 183

Jang, H.G., 41
Johnson, B.F.G., 177, 191
Johnston, D.H., 83
Julve, M., 261

Khan, M.I., 325
Kramarz, K.W., 111
Kramer, K.S., 141
Krüger, C., 129

Laurent, J.-P., 57
Lewis, J., 177
Li, C.-K., 177
Liao, M.-S., 233
Lloret, F., 261
Longoni, G., 183
López, J.A., 199

Marshall, P., 121
Martin, J.D., 17
Masters, A.F., 49
Matsumoto, K., 11
McFeaters, J.S., 233
Mealli, C., 199
Meanwell, N.J., 171
Meienberger, M.D., 157
Meli, A., 269
Meyer, J.T., 49
Monari, M., 183
Morewood, C.A., 177
Muñoz, C.M., 261
Murray, M., 25
Musso, F., 301

Nuel, D., 3

Osella, D., 311

Parisini, E., 121
Perkovic, M.W., 253
Pope, M.T., 91
Powell, A.K., 147
Powell, G., 147
Pradié, G., 57
Pringle, P.G., 25
Proserpio, D.M., 319
Puddephatt, R.J., 29

Que, Jr., L., 41

Raithby, P.R., 177
Ramirez de Arellano, M.C., 177
Rappé, A.K., 319
Reed, D., 191
Richens, D.T., 147
Rillema, D.P., 253
Rima, G., 1
Ros, R., 301
Roulet, R., 301
Rüegger, H., 157
Ruiz, R., 261
Russo, U., 279

Sabatino, P., 191
Sakai, K., 11
Satgé, J., 1
Schneider, J.J., 129
Schwarz, W.H.E., 233
Schwerdtfeger, P., 233
Shafiq, F., 111
Shih, K.-Y., 247
Shriver, D.F., 83
Smith, M.B., 25
Solans, X., 261
Song, J., 75
Spiccia, L., 103
Stern, C.L., 83
Sun, Y., 199

Tamburini, S., 279
Tandon, S.S., 289
Thompson, L.K., 289
Tsubomura, T., 11

Van Wallendael, S., 253
Vigato, P.A., 279

Walton, R.A., 247
Wilke, G., 129
Wong, W.T., 177

Zang, Y., 41
Zubieta, J., 325

Subject Index of Volume 213

Alkoxide complexes
triple bonds between tungsten atoms with ancillary dimesitylboroalkoxide ligands. Preparations, properties and structures of $W_2(NMe_2)_4[OB(Mes)_2]_2$ and $W_2(OBu^t)_4[OB(Mes)_2]_2$, 17
Alkyl complexes
binuclear rhodium alkyl and acyl A-frame complexes: synthesis, structure and reactivity, 111
the mercury–mercury bond in inorganic and organometallic compounds. A theoretical study, 233
Alkyne complexes
conversion of the clusters $[Os_3(1,3\text{-diyne})(CO)_{10}]$ into bis(alkynyl) clusters by carbon–carbon bond cleavage, 3
mixed alkyne–arene-substituted carbonyl clusters; the crystal and molecular structure of $Os_4(CO)_9(\eta^6\text{-}C_6H_6)$-(MeCCMe), 177
Anation
kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate, 103
Anion complexes
interconversions of nickel carbonyl cluster anions, 49
molecular salts of high nuclearity cluster anions: cation control on the crystal structure, 121
Aquo complexes
NMR study of mononuclear, binuclear and trinuclear tris(hydroxymethyl)phosphine-platinum(II) complexes with aquo or hydroxo ligands, 25
kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate, 103
terminal water ligand exchange and substitution by isonicotinamide on the oxo-centred triruthenium(III) complex $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]^+$. Crystal structure of $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]ClO_4\cdot HClO_4\cdot H_2O$, 147
Arene complexes
mixed alkyne–arene-substituted carbonyl clusters; the crystal and molecular structure of $Os_4(CO)_9(\eta^6\text{-}C_6H_6)$-(MeCCMe), 177
Aryl complexes
binuclear rhodium alkyl and acyl A-frame complexes: synthesis, structure and reactivity, 111

Bidentate ligand complexes
redox disproportionation cleavage of an α-pyrrolidonate-bridged mixed-valent tetranuclear platinum complex, 11
ligand steric bulk: a neglected factor in the formation of Cr–Cr supershort contacts, 65
Binuclear complexes
triple bonds between tungsten atoms with ancillary dimesitylboroalkoxide ligands. Preparations, properties and structures of $W_2(NMe_2)_4[OB(Mes)_2]_2$ and $W_2(OBu^t)_4[OB(Mes)_2]_2$, 17
NMR study of mononuclear, binuclear and trinuclear tris(hydroxymethyl)phosphine-platinum(II) complexes with aquo or hydroxo ligands, 25
binuclear rhodium alkyl and acyl A-frame complexes: synthesis, structure and reactivity, 111
Borane complexes
electronic structures of the isolobal pair, $Ru_3(CO)_9(CH)_2$ and $(BH)_3(CH)_2$; the eighteen-electron rule versus skeletal electron-pair counting, 75

Carbene complexes
carbene derivatives of $[Ir_4(CO)_{12}]$. Crystal structures of $[Ir_4(CO)_{12-x}(\overline{COCH_2CH_2O})_x]$ ($x = 1, 2, 3$), 301
Carbide complexes
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)-$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83
Carbonyl complexes
conversion of the clusters $[Os_3(1,3\text{-diyne})(CO)_{10}]$ into bis(alkynyl) clusters by carbon–carbon bond cleavage, 3
interconversions of nickel carbonyl cluster anions, 49
electronic structures of the isolobal pair, $Ru_3(CO)_9(CH)_2$ and $(BH)_3(CH)_2$; the eighteen-electron rule versus skeletal electron-pair counting, 75
molecular salts of high nuclearity cluster anions: cation control on the crystal structure, 121
phosphido-bridged iridium clusters: crystal and molecular structure of $[Ir_3(\mu\text{-}PPh_2)_3(\mu$-bis(diphenylphosphino)-methane$)(CO)_4]$ and correlation of Ir–Ir distances with valence electron count, 171
mixed alkyne–arene-substituted carbonyl clusters; the crystal and molecular structure of $Os_4(CO)_9(\eta^6\text{-}C_6H_6)$-(MeCCMe), 177
cyclohexa-1,4-diene in a bridging coordination mode: synthesis and structural characterisation of $Ru_5C(CO)_{13}$-$(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)$ and $Ru_5C(CO)_{11}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)_2$, 191
carbene derivatives of $[Ir_4(CO)_{12}]$. Crystal structures of $[Ir_4(CO)_{12-x}(\overline{COCH_2CH_2O})_x]$ ($x = 1, 2, 3$), 301
electronic interactions in multicluster arrays. An electrochemical approach. Part III, 311
Carboxylato complexes
cationic d^3–d^3 dinuclear compounds of tungsten: $[W_2(O_2CBu^t)_5]^+X^-$, where $X^- = BF_4^-$ and CF_3SO_3, 141
Chromium complexes
ligand steric bulk: a neglected factor in the formation of Cr–Cr supershort contacts, 65
kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate, 103
Cluster complexes
interconversions of nickel carbonyl cluster anions, 49
electronic structures of the isolobal pair, $Ru_3(CO)_9(CH)_2$ and $(BH)_3(CH)_2$; the eighteen-electron rule versus skeletal electron-pair counting, 75
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)-$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83
molecular salts of high nuclearity cluster anions: cation control on the crystal structure, 121
phosphido-bridged iridium clusters: crystal and molecular structure of $[Ir_3(\mu\text{-}PPh_2)_3(\mu$-bis(diphenylphosphino)-methane$)(CO)_4]$ and correlation of Ir–Ir distances with valence electron count, 171
mixed alkyne–arene-substituted carbonyl clusters; the crystal and molecular structure of $Os_4(CO)_9(\eta^6\text{-}C_6H_6)$-(MeCCMe), 177

structural characterization of the trinuclear cluster compound $[Fe(CO)_4(AuPPh_3)_2]$ and isolation of its parent anion $[Fe(CO)_4(AuPPh_3)]$, 183
cyclohexa-1,4-diene in a bridging coordination mode: synthesis and structural characterisation of $Ru_5C(CO)_{13}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)$ and $Ru_5C(CO)_{11}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)_2$, 191
carbene derivatives of $[Ir_4(CO)_{12}]$. Crystal structures of $[Ir_4(CO)_{12-x}(\overline{COCH_2CH_2O})_x]$ ($x = 1, 2, 3$), 301
electronic interactions in multicluster arrays. An electrochemical approach. Part III, 311
theoretical modeling of the mechanism of dioxygen activation and evolution by tetranuclear manganese complexes, 319

Cobalt complexes
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)-$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83

Copper complexes
a study of the exchange interaction through phenolato, oximato and oxamidato bridges in $Mn^{II}Cu^{II}$ dimers. Crystal structure of $[Cu(salen)Mn(hfa)_2]$, 261
X-ray structural analyses of copper(I) and silver(I) adducts of the Rh(III) trihydride $[(triphos)RhH_3]$, with triphos = $CH_3C(CH_2PPh_2)_3$, 269
copper(II) coordination chemistry of potentially octadentate (N_8) tetrapyridyl and tetrapyrazolyl-pyridazine ligands. X-ray crystal structures of $[Cu_2(PTAPY)Br_4]\cdot 2DMF$ and $[Cu_2(PTAPY)(NO_3)_2(N_3)(H_2O)]_2(NO_3)_2\cdot 1.2CH_3OH$, 289

Crystal structures
conversion of the clusters $[Os_3(1,3\text{-diyne})(CO)_{10}]$ into bis(alkynyl) clusters by carbon–carbon bond cleavage, 3
triple bonds between tungsten atoms with ancillary dimesitylboroalkoxide ligands. Preparations, properties and structures of $W_2(NMe_2)_4[OB(Mes)_2]_2$ and $W_2(OBu^t)_4[OB(Mes)_2]_2$, 17
trinuclear complexes with $Pt_2M(\mu_3\text{-}S)$ groups and the ease of inversion at sulfur, 29
structures and properties of ferromagnetically coupled bis(μ-halo)diiron(II) complexes, 41
ligand steric bulk: a neglected factor in the formation of Cr–Cr supershort contacts, 65
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)-$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83
the structure of oxo-bridged trinuclear ruthenium and iridium hexacarboxylates, 99
binuclear rhodium alkyl and acyl A-frame complexes: synthesis, structure and reactivity, 111
molecular salts of high nuclearity cluster anions: cation control on the crystal structure, 121
transition metal complexes. VII. $[(\eta^5\text{-}Cp)Ni(PEt_3)]_2$, a dinuclear organometallic complex with an unbridged Ni–Ni bond; structure and heteronuclear complexes thereof, 129
cationic d^3–d^3 dinuclear compounds of tungsten: $[W_2(O_2CBu^t)_5]^+X^-$, where $X^- = BF_4^-$ and CF_3SO_3, 141
terminal water ligand exchange and substitution by isonicotinamide on the oxo-centred triruthenium(III) complex $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]^+$. Crystal structure of $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]ClO_4\cdot HClO_4\cdot H_2O$, 147
the reactivity of complexes containing the $[Mo_3(\mu_3S)(\mu S_2)_3]^{4+}$ core. Ligand substitution, sulfur elimination and sulfide binding, 157
phosphido-bridged iridium clusters: crystal and molecular structure of $[Ir_3(\mu\text{-}PPh_2)_3(\mu\text{-}bis(diphenylphosphino)methane)(CO)_4]$ and correlation of Ir–Ir distances with valence electron count, 171
mixed alkyne–arene-substituted carbonyl clusters; the crystal and molecular structure of $Os_4(CO)_9(\eta^6\text{-}C_6H_6)$-(MeCCMe), 177
structural characterization of the trinuclear cluster compound $[Fe(CO)_4(AuPPh_3)_2]$ and isolation of its parent anion $[Fe(CO)_4(AuPPh_3)]$, 183
cyclohexa-1,4-diene in a bridging coordination mode: synthesis and structural characterisation of $Ru_5C(CO)_{13}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)$ and $Ru_5C(CO)_{11}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)_2$, 191
acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry, 213
reactions of the electron-rich triply bonded dirhenium(II) complexes $Re_2X_4(\mu\text{-}dppm)_2$ (X = Cl, Br) with dioxygen. Part III. The isolation and structural characterization of the dirhenium(V) complex $Re_2(\mu\text{-}O)_2(O)_2Cl_2(\mu\text{-}dppm)_2$, 247
a study of the exchange interaction through phenolato, oximato and oxamidato bridges in $Mn^{II}Cu^{II}$ dimers. Crystal structure of $[Cu(salen)Mn(hfa)_2]$, 261
X-ray structural analyses of copper(I) and silver(I) adducts of the Rh(III) trihydride $[(triphos)RhH_3]$, with triphos = $CH_3C(CH_2PPh_2)_3$, 269
copper(II) coordination chemistry of potentially octadentate (N_8) tetrapyridyl and tetrapyrazolyl-pyridazine ligands. X-ray crystal structures of $[Cu_2(PTAPY)Br_4]\cdot 2DMF$ and $[Cu_2(PTAPY)(NO_3)_2(N_3)(H_2O)]_2(NO_3)_2\cdot 1.2CH_3OH$, 289
carbene derivatives of $[Ir_4(CO)_{12}]$. Crystal structures of $[Ir_4(CO)_{12-x}(\overline{COCH_2CH_2O})_x]$ ($x = 1, 2, 3$), 301
hydrothermal synthesis and crystal structure of the trimolybdate, $(H_3NCH_2CH_2NH_3)Mo_3O_{10}$, 325

Cyanide complexes
acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry, 213

Cyclopentadienyl complexes
transition metal complexes. VII. $[(\eta^5\text{-}Cp)Ni(PEt_3)]_2$, a dinuclear organometallic complex with an unbridged Ni–Ni bond; structure and heteronuclear complexes thereof, 129

Diene complexes
cyclohexa-1,4-diene in a bridging coordination mode: synthesis and structural characterisation of $Ru_5C(CO)_{13}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)$ and $Ru_5C(CO)_{11}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)_2$, 191

Dinuclear complexes
synthesis and reactivity of the new digermaheterocycles $Me_2Ge(CH_2)_nGe(Me_2)NC(O)N(R)C(O)N$ ($n = 0, 1, 2$; R = Ph, Me), 1
structures and properties of ferromagnetically coupled bis(μ-halo)diiron(II) complexes, 41
dinuclear (Cu/Cu, Ni/Ni, V/V and Fe/Fe) complexes of a novel oxamide-type ligand coordinating in the *trans* conformation, 57
ligand steric bulk: a neglected factor in the formation of Cr–Cr supershort contacts, 65
kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate, 103
cationic d^3–d^3 dinuclear compounds of tungsten: $[W_2(O_2CBu^t)_5]^+X^-$, where $X^- = BF_4^-$ and CF_3SO_3, 141

reactions of the electron-rich triply bonded dirhenium(II) complexes $Re_2X_4(\mu\text{-dppm})_2$ (X = Cl, Br) with dioxygen. Part III. The isolation and structural characterization of the dirhenium(V) complex $Re_2(\mu\text{-}O)_2(O)_2Cl_2(\mu\text{-dppm})_2$, 247
solvent dependent behavior of energy transfer in a mixed metal ruthenium(II)/rhenium(I) complex, 253
Mössbauer and magnetic properties of mononuclear, homo- and hetero-dinuclear complexes, 279
copper(II) coordination chemistry of potentially octadentate (N_8) tetrapyridyl and tetrapyrazolyl-pyridazine ligands. X-ray crystal structures of $[Cu_2(PTAPY)Br_4]\cdot 2DMF$ and $[Cu_2(PTAPY)(NO_3)_2(N_3)(H_2O)]_2(NO_3)_2\cdot 1.2CH_3OH$, 289

Dinucleating ligand complexes
dinuclear (Cu/Cu, Ni/Ni, V/V and Fe/Fe) complexes of a novel oxamide-type ligand coordinating in the *trans* conformation, 57

Dioxygen activation
theoretical modeling of the mechanism of dioxygen activation and evolution by tetranuclear manganese complexes, 319

Dioxygen complexes
theoretical modeling of the mechanism of dioxygen activation and evolution by tetranuclear manganese complexes, 319

Electrochemistry
stabilization and magnetic resonance characterization of the one-electron heteropoly blue derivative of the molybdophosphate $[P_2Mo_{18}O_{62}]^{6-}$. Slow intramolecular proton exchange of the two-electron blue in acetonitrile solution, 91
electronic interactions in multicluster arrays. An electrochemical approach. Part III, 311

Electronic structures
electronic structures of the isolobal pair, $Ru_3(CO)_9(CH)_2$ and $(BH)_3(CH)_2$; the eighteen-electron rule versus skeletal electron-pair counting, 75

Germanium complexes
synthesis and reactivity of the new digermaheterocycles $Me_2Ge(CH_2)_nGe(Me_2)NC(O)N(R)C(O)N$ (n = 0, 1, 2; R = Ph, Me), 1

Gold complexes
structural characterization of the trinuclear cluster compound $[Fe(CO)_4(AuPPh_3)_2]$ and isolation of its parent anion $[Fe(CO)_4(AuPPh_3)]$, 183

Halide complexes
structures and properties of ferromagnetically coupled bis(μ-halo)diiron(II) complexes, 41
the mercury–mercury bond in inorganic and organometallic compounds. A theoretical study, 233
reactions of the electron-rich triply bonded dirhenium(II) complexes $Re_2X_4(\mu\text{-dppm})_2$ (X = Cl, Br) with dioxygen. Part III. The isolation and structural characterization of the dirhenium(V) complex $Re_2(\mu\text{-}O)_2(O)_2Cl_2(\mu\text{-dppm})_2$, 247

Heterodinuclear complexes
a study of the exchange interaction through phenolato, oximato and oxamidato bridges in $Mn^{II}Cu^{II}$ dimers. Crystal structure of $[Cu(salen)Mn(hfa)_2]$, 261

Heteronuclear complexes
transition metal complexes. VII. $[(\eta^5\text{-Cp})Ni(PEt_3)]_2$, a dinuclear organometallic complex with an unbridged Ni–Ni bond; structure and heteronuclear complexes thereof, 129

Hydride complexes
X-ray structural analyses of copper(I) and silver(I) adducts of the Rh(III) trihydride [(triphos)RhH_3], with triphos = $CH_3C(CH_2PPh_2)_3$, 269

Hydroxo complexes
NMR study of mononuclear, binuclear and trinuclear tris(hydroxymethyl)phosphine-platinum(II) complexes with aquo or hydroxo ligands, 25
kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate, 103

Iridium complexes
the structure of oxo-bridged trinuclear ruthenium and iridium hexacarboxylates, 99
phosphido-bridged iridium clusters: crystal and molecular structure of $[Ir_3(\mu\text{-}PPh_2)_3(\mu\text{-bis(diphenylphosphino)methane})(CO)_4]$ and correlation of Ir–Ir distances with valence electron count, 171
carbene derivatives of $[Ir_4(CO)_{12}]$. Crystal structures of $[Ir_4(CO)_{12-x}(COCH_2CH_2O)_x]$ (x = 1, 2, 3), 301

Iron complexes
structures and properties of ferromagnetically coupled bis(μ-halo)diiron(II) complexes, 41
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)-$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83
structural characterization of the trinuclear cluster compound $[Fe(CO)_4(AuPPh_3)_2]$ and isolation of its parent anion $[Fe(CO)_4(AuPPh_3)]$, 183

Kinetics and mechanism
kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate, 103

Magnetism
structures and properties of ferromagnetically coupled bis(μ-halo)diiron(II) complexes, 41
dinuclear (Cu/Cu, Ni/Ni, V/V and Fe/Fe) complexes of a novel oxamide-type ligand coordinating in the *trans* conformation, 57
a study of the exchange interaction through phenolato, oximato and oxamidato bridges in $Mn^{II}Cu^{II}$ dimers. Crystal structure of $[Cu(salen)Mn(hfa)_2]$, 261
Mössbauer and magnetic properties of mononuclear, homo- and hetero-dinuclear complexes, 279

Manganese complexes
a study of the exchange interaction through phenolato, oximato and oxamidato bridges in $Mn^{II}Cu^{II}$ dimers. Crystal structure of $[Cu(salen)Mn(hfa)_2]$, 261
theoretical modeling of the mechanism of dioxygen activation and evolution by tetranuclear manganese complexes, 319

Mercury complexes
the mercury–mercury bond in inorganic and organometallic compounds. A theoretical study, 233

Metal complexes
trinuclear complexes with $Pt_2M(\mu_3\text{-}S)$ groups and the ease of inversion at sulfur, 29

Metal–metal bond complexes
the mercury–mercury bond in inorganic and organometallic compounds. A theoretical study, 233

Molybdenum complexes
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)-$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83

stabilization and magnetic resonance characterization of the one-electron heteropoly blue derivative of the molybdophosphate $[P_2Mo_{18}O_{62}]^{6-}$. Slow intramolecular proton exchange of the two-electron blue in acetonitrile solution, 91

the reactivity of complexes containing the $[Mo_3(\mu_3S)(\mu S_2)_3]^{4+}$ core. Ligand substitution, sulfur elimination and sulfide binding, 157

hydrothermal synthesis and crystal structure of the trimolybdate, $(H_3NCH_2CH_2NH_3)Mo_3O_{10}$, 325

MO study

MO architectures of octahedral metal clusters, 199

Multidentate ligand complexes

copper(II) coordination chemistry of potentially octadentate (N_8) tetrapyridyl and tetrapyrazolyl-pyridazine ligands. X-ray crystal structures of $[Cu_2(PTAPY)Br_4]\cdot 2DMF$ and $[Cu_2(PTAPY)(NO_3)_2(N_3)(H_2O)]_2(NO_3)_2\cdot 1.2CH_3OH$, 289

Multiple bond complexes

triple bonds between tungsten atoms with ancillary dimesitylboroalkoxide ligands. Preparations, properties and structures of $W_2(NMe_2)_4[OB(Mes)_2]_2$ and $W_2(OBu^t)_4[OB(Mes)_2]_2$, 17

acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry, 213

Nickel complexes

interconversions of nickel carbonyl cluster anions, 49

transition metal complexes. VII. $[(\eta^5\text{-Cp})Ni(PEt_3)]_2$, a dinuclear organometallic complex with an unbridged Ni–Ni bond; structure and heteronuclear complexes thereof, 129

Nitrile complexes

acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry, 213

Octahedral cluster complexes

MO architectures of octahedral metal clusters, 199

Osmium complexes

conversion of the clusters $[Os_3(1,3\text{-diyne})(CO)_{10}]$ into bis(alkynyl) clusters by carbon–carbon bond cleavage, 3

mixed alkyne–arene-substituted carbonyl clusters; the crystal and molecular structure of $Os_4(CO)_9(\eta^6\text{-}C_6H_6)$-(MeCCMe), 177

Oxo complexes

the structure of oxo-bridged trinuclear ruthenium and iridium hexacarboxylates, 99

terminal water ligand exchange and substitution by isonicotinamide on the oxo-centred triruthenium(III) complex $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]^+$. Crystal structure of $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]ClO_4\cdot HClO_4\cdot H_2O$, 147

reactions of the electron-rich triply bonded dirhenium(II) complexes $Re_2X_4(\mu\text{-dppm})_2$ (X = Cl, Br) with dioxygen. Part III. The isolation and structural characterization of the dirhenium(V) complex $Re_2(\mu\text{-}O)_2(O)_2Cl_2(\mu\text{-dppm})_2$, 247

hydrothermal synthesis and crystal structure of the trimolybdate, $(H_3NCH_2CH_2NH_3)Mo_3O_{10}$, 325

Phosphate complexes

stabilization and magnetic resonance characterization of the one-electron heteropoly blue derivative of the molybdophosphate $[P_2Mo_{18}O_{62}]^{6-}$. Slow intramolecular proton exchange of the two-electron blue in acetonitrile solution, 91

Phosphido complexes

phosphido-bridged iridium clusters: crystal and molecular structure of $[Ir_3(\mu\text{-}PPh_2)_3(\mu\text{-bis(diphenylphosphino)-methane})(CO)_4]$ and correlation of Ir–Ir distances with valence electron count, 171

Photochemistry

solvent dependent behavior of energy transfer in a mixed metal ruthenium(II)/rhenium(I) complex, 253

Platinum complexes

redox disproportionation cleavage of an α-pyrrolidonate-bridged mixed-valent tetranuclear platinum complex, 11

NMR study of mononuclear, binuclear and trinuclear tris(hydroxymethyl)phosphine-platinum(II) complexes with aquo or hydroxo ligands, 25

trinuclear complexes with $Pt_2M(\mu_3\text{-S})$ groups and the ease of inversion at sulfur, 29

Polynuclear complexes

redox disproportionation cleavage of an α-pyrrolidonate-bridged mixed-valent tetranuclear platinum complex, 11

stabilization and magnetic resonance characterization of the one-electron heteropoly blue derivative of the molybdophosphate $[P_2Mo_{18}O_{62}]^{6-}$. Slow intramolecular proton exchange of the two-electron blue in acetonitrile solution, 91

Redox reactions

redox disproportionation cleavage of an α-pyrrolidonate-bridged mixed-valent tetranuclear platinum complex, 11

Rhenium complexes

reactions of the electron-rich triply bonded dirhenium(II) complexes $Re_2X_4(\mu\text{-dppm})_2$ (X = Cl, Br) with dioxygen. Part III. The isolation and structural characterization of the dirhenium(V) complex $Re_2(\mu\text{-}O)_2(O)_2Cl_2(\mu\text{-dppm})_2$, 247

solvent dependent behavior of energy transfer in a mixed metal ruthenium(II)/rhenium(I) complex, 253

Rhodium complexes

binuclear rhodium alkyl and acyl A-frame complexes: synthesis, structure and reactivity, 111

X-ray structural analyses of copper(I) and silver(I) adducts of the Rh(III) trihydride $[(triphos)RhH_3]$, with triphos = $CH_3C(CH_2PPh_2)_3$, 269

Ruthenium complexes

electronic structures of the isolobal pair, $Ru_3(CO)_9(CH)_2$ and $(BH)_3(CH)_2$; the eighteen-electron rule versus skeletal electron-pair counting, 75

the structure of oxo-bridged trinuclear ruthenium and iridium hexacarboxylates, 99

terminal water ligand exchange and substitution by isonicotinamide on the oxo-centred triruthenium(III) complex $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]^+$. Crystal structure of $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]ClO_4\cdot HClO_4\cdot H_2O$, 147

cyclohexa-1,4-diene in a bridging coordination mode: synthesis and structural characterisation of $Ru_5C(CO)_{13}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)$ and $Ru_5C(CO)_{11}(\mu_2\text{-}\eta^2\text{:}\eta^2\text{-}C_6H_8\text{-}1,4)_2$, 191

solvent dependent behavior of energy transfer in a mixed metal ruthenium(II)/rhenium(I) complex, 253

electronic interactions in multicluster arrays. An electrochemical approach. Part III, 311

Schiff base complexes

Mössbauer and magnetic properties of mononuclear, homo- and hetero-dinuclear complexes, 279

Silver complexes
X-ray structural analyses of copper(I) and silver(I) adducts of the Rh(III) trihydride [(triphos)RhH_3], with triphos = $CH_3C(CH_2PPh_2)_3$, 269
Solid-state chemistry
acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry, 213
Sulfide complexes
the reactivity of complexes containing the $[Mo_3(\mu_3S)(\mu S_2)_3]^{4+}$ core. Ligand substitution, sulfur elimination and sulfide binding, 157
Sulfur complexes
trinuclear complexes with $Pt_2M(\mu_3\text{-}S)$ groups and the ease of inversion at sulfur, 29

Theoretical study
the mercury–mercury bond in inorganic and organometallic compounds. A theoretical study, 233
Transition metal complexes
dinuclear (Cu/Cu, Ni/Ni, V/V and Fe/Fe) complexes of a novel oxamide-type ligand coordinating in the *trans* conformation, 57
molecular salts of high nuclearity cluster anions: cation control on the crystal structure, 121
MO architectures of octahedral metal clusters, 199
acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry, 213
Mössbauer and magnetic properties of mononuclear, homo- and hetero-dinuclear complexes, 279
Trinuclear complexes
trinuclear complexes with $Pt_2M(\mu_3\text{-}S)$ groups and the ease of inversion at sulfur, 29
the structure of oxo-bridged trinuclear ruthenium and iridium hexacarboxylates, 99
terminal water ligand exchange and substitution by isonicotinamide on the oxo-centred triruthenium(III) complex $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]^+$. Crystal structure of $[Ru_3(\mu_3\text{-}O)(\mu\text{-}CH_3CO_2)_6(OH_2)_3]ClO_4\cdot HClO_4\cdot H_2O$, 147
the reactivity of complexes containing the $[Mo_3(\mu_3S)(\mu S_2)_3]^{4+}$ core. Ligand substitution, sulfur elimination and sulfide binding, 157
structural characterization of the trinuclear cluster compound $[Fe(CO)_4(AuPPh_3)_2]$ and isolation of its parent anion $[Fe(CO)_4(AuPPh_3)]$, 183
hydrothermal synthesis and crystal structure of the trimolybdate, $(H_3NCH_2CH_2NH_3)Mo_3O_{10}$, 325
Tungsten complexes
triple bonds between tungsten atoms with ancillary dimesitylboroalkoxide ligands. Preparations, properties and structures of $W_2(NMe_2)_4[OB(Mes)_2]_2$ and $W_2(OBu^t)_4[OB(Mes)_2]_2$, 17
synthesis of heterometallic butterfly carbide clusters containing three different metals: (PPN)$[Fe_2CoM(dmpm)(CO)_{11}C]$ (M = Mo or W), 83
cationic d^3–d^3 dinuclear compounds of tungsten: $[W_2(O_2CBu^t)_5]^+X^-$, where $X^- = BF_4^-$ and CF_3SO_3, 141